

## Claims

### 1. A piezoelectric actuator with

- a multilayered structure of piezoelectric layers with inner electrodes (2, 3) interspersed between them,
- a contacting of the inner electrodes (2, 3) on alternating sides with outer electrodes (4) that can supply an electrical voltage, wherein
- the respective outer electrode (4) is attached in a net-like, mesh-like, or screen-like fashion and contacts the respective inner electrodes (2, 3) at least at points, characterized in that
- the contacting of the inner electrodes (2, 3) is provided in the corner region of the piezoelectric actuator (1), wherein the net-like, mesh-like, or screen-like outer electrode (4) is guided around the respective corner in a predetermined region, and contacts the respective inner electrodes (2, 3) at least in parts.

### 2. The piezoelectric actuator according to claim 1, characterized in that

- the net-like, mesh-like, or screen-like outer electrode (4) extends in the direction of the multilayered structure of piezoelectric layers (5) and can be provided with a terminal (6) there.

### 3. The piezoelectric actuator according to claim 2, characterized in that

- the extension (5) and the terminal (6) are disposed in the region of the cross section of the piezoelectric actuator (1).

4. The piezoelectric actuator according to claim 1, characterized in that
  - the respective net-like, mesh-like, or screen-like outer electrode extends laterally from the piezoelectric layers and is provided with a terminal there.
5. The piezoelectric actuator according to one of claims 2 to 4, characterized in that
  - in the region of the extension (5), the respective net-like, mesh-like, or screen-like outer electrode (4) is rolled and is provided with a terminal (6).
6. The piezoelectric actuator according to one of the preceding claims, characterized in that
  - the respective net-like, mesh-like, or screen-like outer electrode (4) and/or the terminal (6) is/are made of Invar.
7. The piezoelectric actuator according to one of the preceding claims, characterized in that
  - the respective net-like, mesh-like, or screen-like outer electrode (4) and/or the terminal (6) is/are soldered to the respective inner electrodes (2, 3).
8. The piezoelectric actuator according to claim 1, characterized in that
  - the respective net-like, mesh-like, or screen-like outer electrode (4) and/or the terminal (6) is/are welded to the respective inner electrodes (2, 3).